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Chen

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(54) **PRESS-ON COSMETIC CONTAINER**

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B65D 77/06	(2006.01)

(52) **U.S. Cl.**
CPC ***B05B 11/0037*** (2013.01); *B65D 77/065* (2013.01); ***B65D 83/384*** (2013.01)
USPC **222/160**; 222/183

(58) **Field of Classification Search**
CPC B05B 11/0037; B56D 77/065; B65D 83/384; B65D 83/386; B65D 83/388
USPC 222/160, 453, 153.04, 628, 183, 171, 222/214, 522, 525; 401/99, 109, 117
See application file for complete search history.

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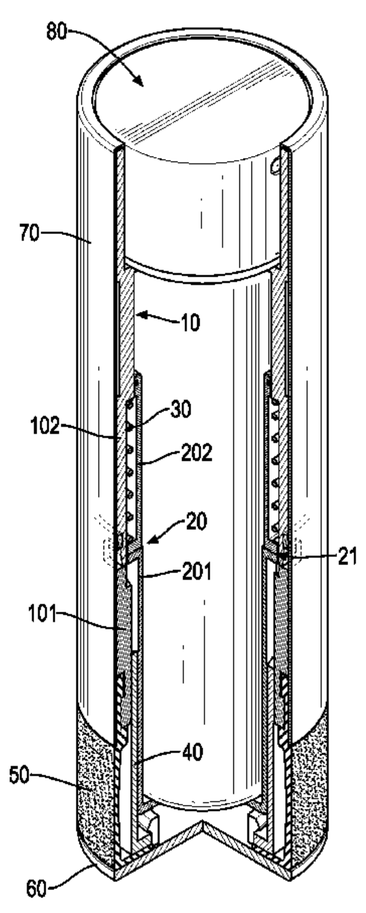
(57) **ABSTRACT**

A press-on cosmetic container has a main tube, an inner tube, a spring and an actuator. The main tube has multiple positioning protrusions and multiple sliding slots. The inner tube has multiple ribs. Two ends of the spring respectively abut the main tube and the inner tube. The actuator is mounted between the main tube and the inner tube and pushes the ribs, such that the ribs are revolved and each rib is positioned alternately through the sliding slots and abutting the positioning protrusions of the main tube. A user can hold the press-on cosmetic container with one single hand to allow a sprayer of a bottle mounted in the cosmetic container to protrude outside or to be stored inside, which is convenient for use.

20 Claims, 6 Drawing Sheets



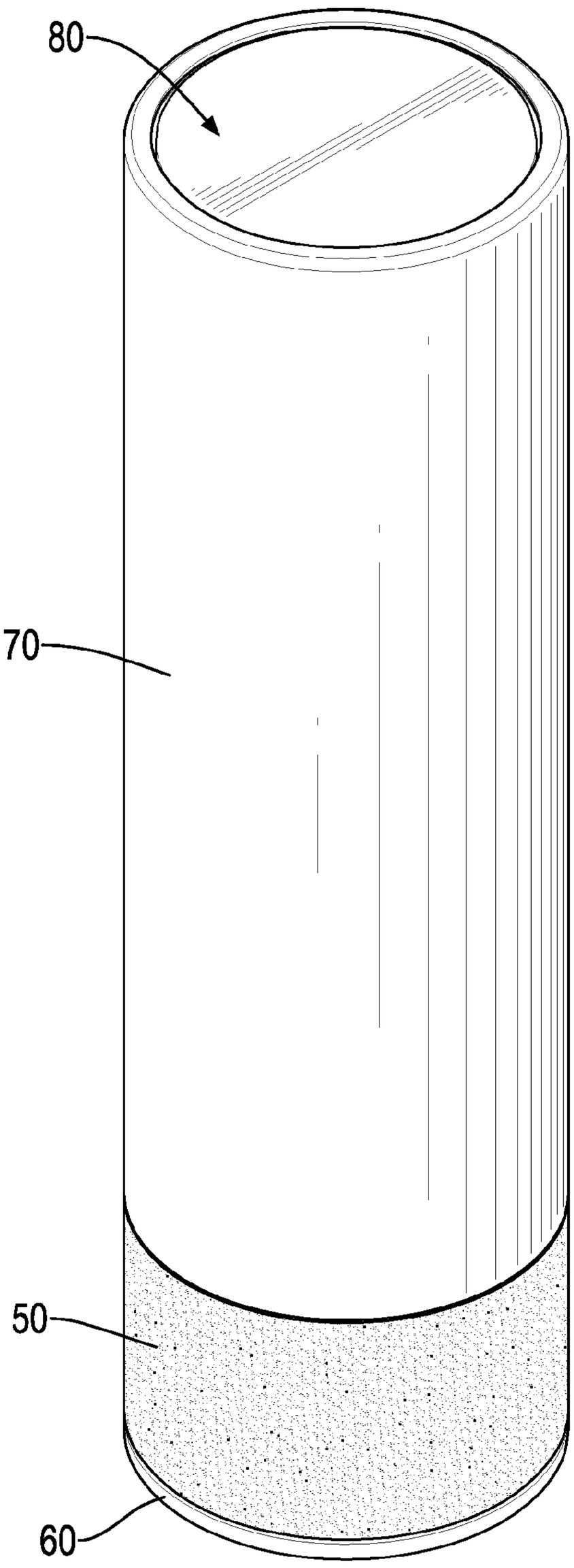


FIG.1

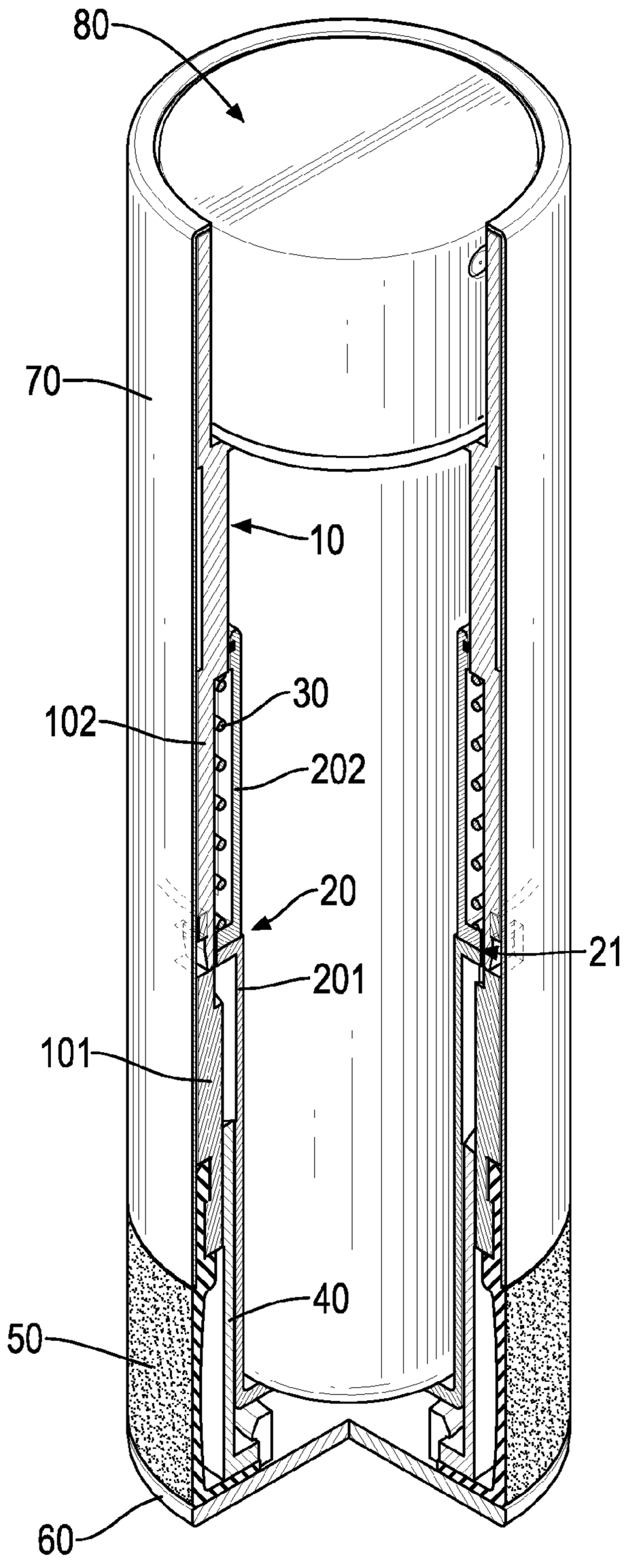


FIG.2

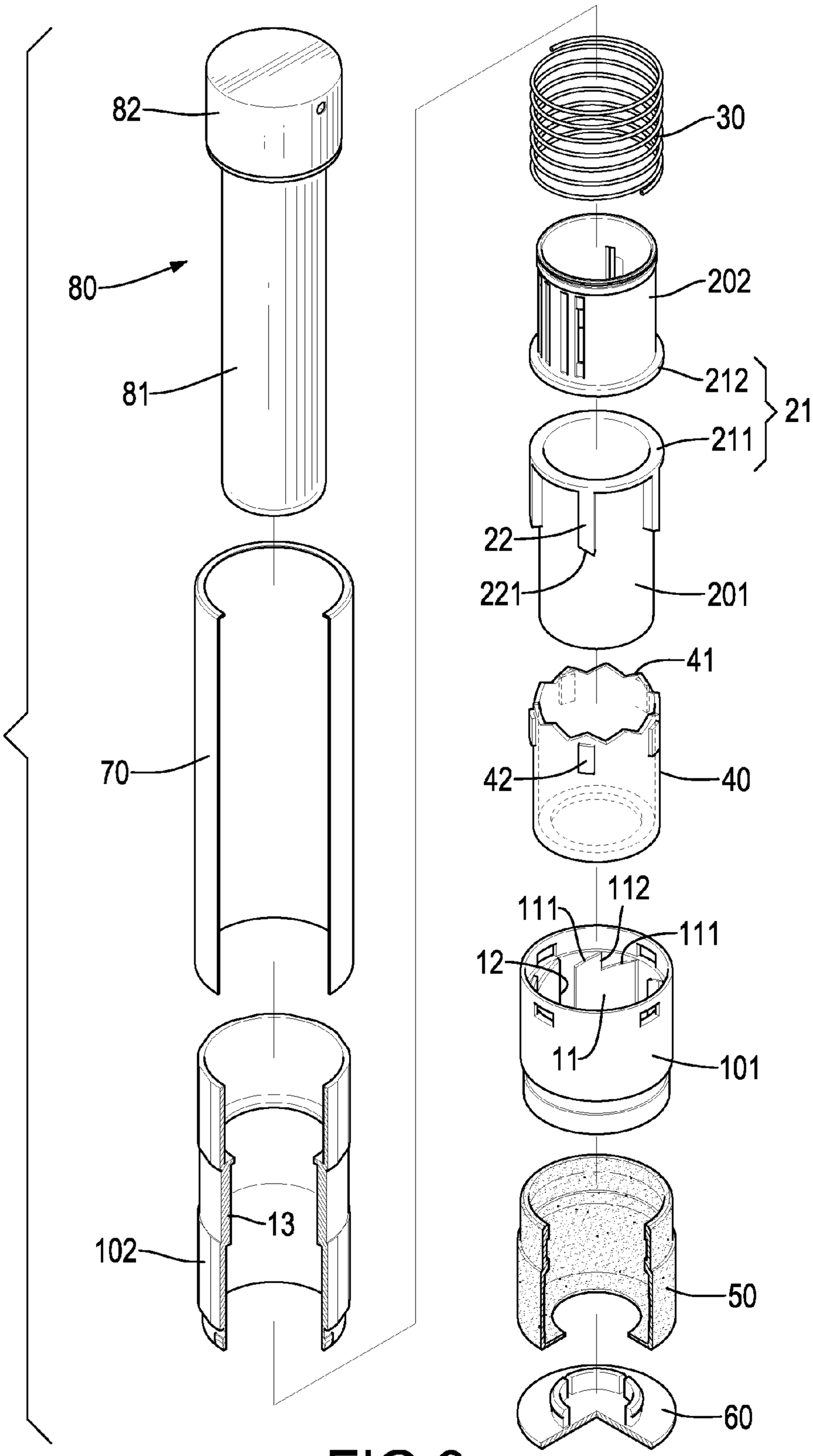

82
80
81
70
102
13
30
202
212
21
211
22
221
201
41
42
40
112
111
111
12
11
101
50
60

FIG.3

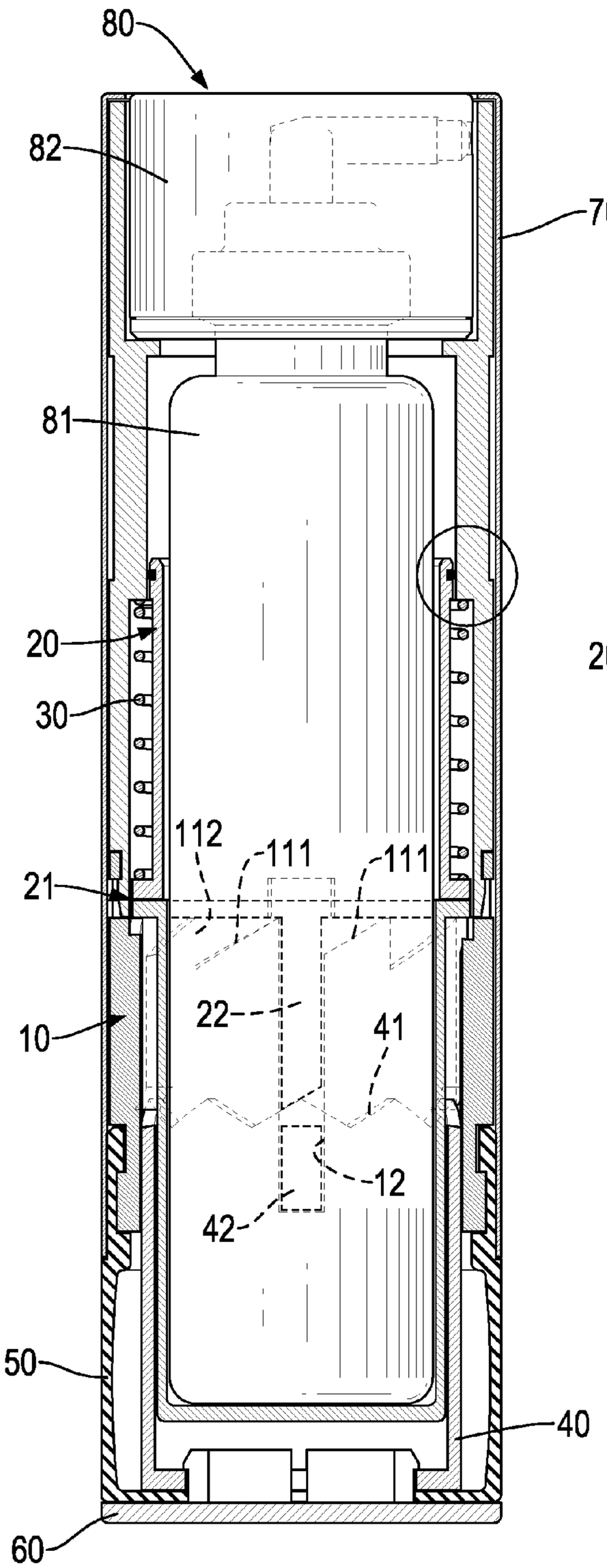


FIG.4A

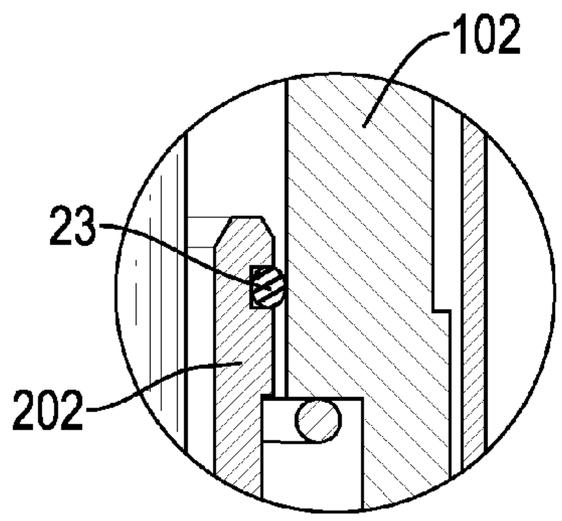


FIG.4B

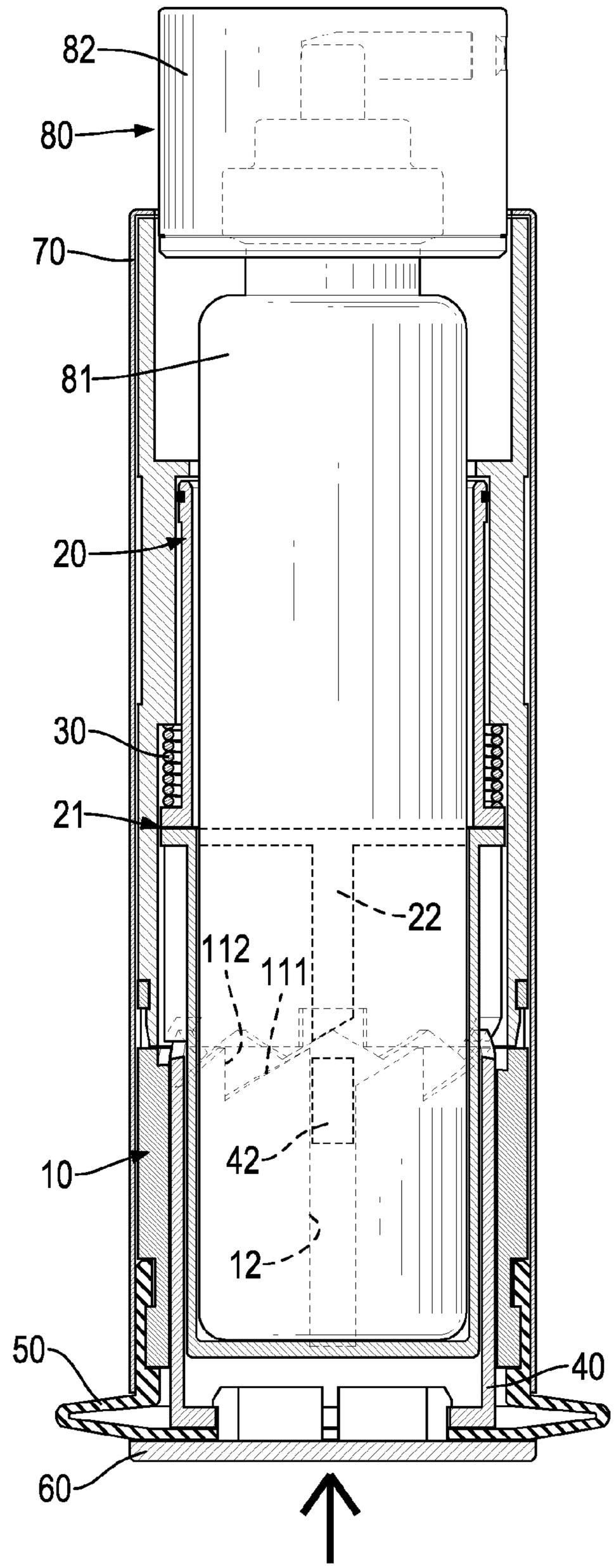


FIG.5

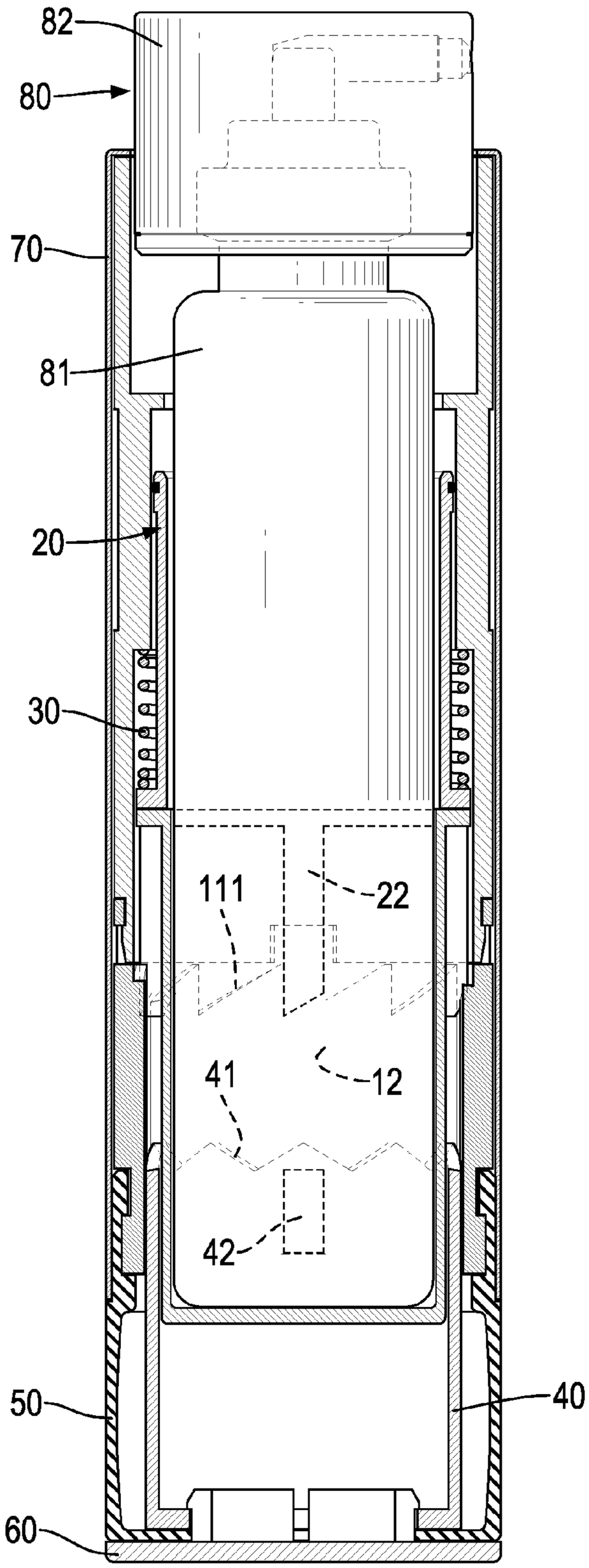


FIG.6

PRESS-ON COSMETIC CONTAINER

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a cosmetic container, especially to a press-on cosmetic container.

2. Description of the Prior Art(s)

A conventional cosmetic container has a bottle, a sprayer, and an end cap. The bottle is used to store cosmetic fluid, such as perfume, toner, or the like. The sprayer is mounted on an upper opening of the bottle. The end cap is detachably mounted on the bottle and around the sprayer. When a user is to dispense the cosmetic fluid from the conventional cosmetic container, the user has to detach the end cap from the bottle first and then presses the sprayer. Thus, a suction assembly that is connected to the sprayer draws the cosmetic fluid and the sprayer sprays out the cosmetic fluid. After using the cosmetic fluid, the end cap has to be mounted on the bottle and around the sprayer again to prevent the sprayer from being accidentally pressed and dispensing cosmetic fluid.

However, since the end cap has to be detached from the bottle whenever dispensing the cosmetic fluid stored in the conventional cosmetic container, once the end cap is not mounted on the bottle properly after use, the sprayer is very likely to be accidentally pressed and sprays out the cosmetic fluid by accident. Moreover, the user has to detach the end cap from the bottle and to mount the end cap back on the bottle, and said acts must be done with two hands since one hand has to hold the bottle. This further hinders convenience in use.

To overcome the shortcomings, the present invention provides a press-on cosmetic container to mitigate or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

The main objective of the present invention is to provide a press-on cosmetic container. The cosmetic container has a main tube, an inner tube, a spring and an actuator. The main tube has multiple positioning protrusions and multiple sliding slots formed on an inner surface of the main tube. The inner tube has multiple ribs formed on an outer surface of the inner tube. Two ends of the spring respectively abut the main tube and the inner tube. The actuator is mounted between the main tube and the inner tube and pushes the ribs of the inner tube, so that the ribs are revolved and each rib is positioned alternately through the sliding slots of the main tube and abutting the positioning protrusions of the main tube.

A user can hold the press-on cosmetic container with one single hand to allow a sprayer of a bottle mounted in the cosmetic container to protrude out of the cosmetic container or retract inward to be stored in the cosmetic container, which is convenient for operating.

Other objectives, advantages and novel features of the invention will become more apparent from the following detailed description when taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a perspective view of a press-on cosmetic container in accordance with the present invention;

FIG. **2** is a cross-sectional perspective view of the press-on cosmetic container in FIG. **1**;

FIG. **3** is an exploded perspective view of the press-on cosmetic container in FIG. **1**;

FIG. **4**A is a side view in partial section of the press-on cosmetic container in FIG. **1**, showing a bottle stored in the press-on cosmetic container;

FIG. **4**B is an enlarged side view in partial of the press-on cosmetic container in FIG. **4**;

FIG. **5** is an operational side view in partial of the press-on cosmetic container in FIG. **1**; and

FIG. **6** is another side view in partial section of the press-on cosmetic container in FIG. **1**, showing the bottle protruding out of the press-on cosmetic container.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference to FIGS. **1** to **3**, a press-on cosmetic container in accordance with the present invention comprises a main tube **10**, an inner tube **20**, a spring **30**, an actuator **40**, a resilient sleeve **50**, an end button **60**, and an outer tube **70**.

The main tube **10** has an inner surface, an outer surface, a lower open end, an upper open end, multiple positioning protrusions **11**, multiple sliding slots **12**, and a limiting protrusion **13**.

The positioning protrusions **11** are separately formed on and arranged around the inner surface of the main tube **10**, and are disposed adjacent to the lower open end of the main tube **10**. Each positioning protrusion **11** has an upper end, two beveled edges **111** and a longitudinal edge **112**. The beveled edges **111** of the positioning protrusion **11** are formed on the upper end of the positioning protrusion **11** and slant in the same direction. The longitudinal edge **112** has two ends respectively connected to the beveled edges **111** of the positioning protrusion **11**.

Each sliding slot **12** extends longitudinally and is defined between two of the positioning protrusions **11** that are adjacent to each other. Each sliding slot **12** has an upper open end and a lower open end.

The limiting protrusion **13** is formed around the inner surface of the main tube **10** and is disposed between the upper open end of the main tube **10** and the positioning protrusions **11**.

Specifically, the main tube **10** comprises a guiding tube **101** and an outer mounting tube **102**. The guiding tube **101** has an inner surface, an upper peripheral edge, and a lower end. The outer mounting tube **102** has an inner surface and a lower peripheral edge corresponding to and securely connected to the upper peripheral edge of the guiding tube **101**. Specifically, the lower peripheral edge of the outer mounting tube **102** and the upper peripheral edge of the guiding tube **101** are securely connected to each other via engaging protrusions and engaging holes to form the main tube **10**. The positioning protrusions **11** and the sliding slots **12** of the main tube **10** are formed on the inner surface of the guiding tube **101**. The limiting protrusion **13** of the main tube **10** is formed on the inner surface of the outer mounting tube **102**.

With further reference to FIGS. **4**A and **4**B, the inner tube **20** is mounted in the main tube **10** and has an upper end, a lower end, an outer surface, a flange **21**, multiple ribs **22** and an O-ring **23**. The upper end of the inner tube **20** is open. The lower end of the inner tube **20** is closed.

The flange **21** is formed around the outer surface of the inner tube **20** and is disposed between the positioning protrusions **11** and the limiting protrusion **13** of the main tube **10**.

The ribs **22** are separately formed on and arranged around the outer surface of the inner tube **20**, and are disposed between the flange **21** and the lower end of the inner tube **20**. The ribs **22** are selectively revolved such that each rib **22** is positioned alternately through the sliding slots **12** of the main

tube **10** and abutting the longitudinal edges **112** and the beveled edges **111** of the positioning protrusions **11** of the main tube **10**. Each rib **22** extends longitudinally and has a lower end and a beveled edge **221**. The beveled edge **221** of the rib **22** is formed on the lower end of the rib **22**, and selectively leans against one of the beveled edges **111** of a corresponding positioning protrusion **11** to allow the rib **22** to slide along the beveled edge **111** of the corresponding positioning protrusion **11**.

The O-ring **23** is mounted around the outer surface of the inner tube **20**, is disposed adjacent to the upper end of the inner tube **20**, and abuts the limiting protrusion **13** of the main tube **10**.

Specifically, the inner tube **20** comprises a positioning tube **201** and an inner mounting tube **202**. The positioning tube **201** has an outer surface, an upper end that is open, a lower end that is closed, and a first lateral protrusion **211**. The first lateral protrusion **211** is formed on the outer surface of the positioning tube **201** and around the upper end of the positioning tube **201**. The inner mounting tube **202** has an outer surface, an upper end that is open, a lower end that is open, and a second lateral protrusion **212**. The second lateral protrusion **212** is formed on the outer surface of the inner mounting tube **202** and around the lower end of the inner mounting tube **202**, and abuts the first lateral protrusion **211** to form the flange **21** of the inner tube **20**. The ribs **22** of the inner tube **20** are formed on the outer surface of the positioning tube **201**. The O-ring **23** of the inner tube **20** is mounted around the outer surface of the inner mounting tube **202** and is disposed adjacent to the upper end of the inner mounting tube **202**.

The spring **30** is mounted around the inner tube **20** and is disposed between the upper end of the inner tube **20** and the flange **21**. The spring **30** has two ends respectively abutting the limiting protrusion **13** of the main tube **10** and the flange **21** of the inner tube **20**. Thus, the spring **30** pushes the inner tube **20** to move toward the lower open end of the main tube **10**. Specifically, the spring **30** is mounted around the inner mounting tube **202** of the inner tube **20**. The ends of the spring **30** respectively abut the limiting protrusion **13** of the main tube **10** and the second lateral protrusion **212** of the inner mounting tube **202**.

The actuator **40** is tubular, is mounted around the lower end of the inner tube **20** and is slidably disposed between the inner tube **20** and the main tube **10**. The actuator **40** has a lower end, an outer surface, an upper peripheral edge **41**, and multiple guiding protrusions **42**. The upper peripheral edge **41** of the actuator **40** is serrate. The guiding protrusions **42** are separately formed on and arranged around the outer surface of the actuator **40**, and are respectively mounted slidably in the sliding slots **12** of the main tube **10**.

The resilient sleeve **50** is made of resilient and soft material and has a lower end and an upper end. The upper end of the resilient sleeve **50** is securely mounted on the lower open end of the main tube **10**. Specifically, the upper end of the resilient sleeve **50** is securely mounted on the lower end of the guiding tube **101** of the main tube **10**.

The end button **60** is mounted on the lower end of the resilient sleeve **50** and is securely connected to the actuator **40**. Specifically, the end button **60** is securely connected to the lower end of the actuator **40** via a split plug and holds the lower end of the resilient sleeve **50** between the end button **60** and the actuator **40**.

The outer tube **70** is mounted around the main tube **10** and the upper end of the resilient sleeve **50** to form a smooth appearance. Information about cosmetics stored in the press-on cosmetic container can be labeled on an outer surface of the outer tube **70**.

With reference to FIGS. **2** and **3**, a bottle **80** receiving cosmetic fluid, such as perfume, toner or the like is stored in the press-on cosmetic container. The bottle **80** has a bottle body **81** and a sprayer **82**. The bottle body **81** is mounted in the inner tube **20**. The sprayer **82** is mounted on an upper end of the bottle body **81** and is disposed between the limiting protrusion **13** and the upper open end of the main tube **10**.

With further reference to FIG. **4**A, when the ribs **22** of the inner tube **20** are respectively mounted through the sliding slots **12** of the main tube **10**, the spring **30** pushes the inner tube **20**, so that the ribs **22** of the inner tube **20** abut the upper peripheral edge **41** of the actuator **40**. Then the whole bottle **80** is received in the press-on cosmetic container for the time being.

With further reference to FIG. **5**, when a user presses the end button **60** to drive the actuator **40**, the resilient sleeve **50** deforms, and the guiding protrusions **42** of the actuator **40** slide along the sliding slots **12** of the main tube **10** and respectively push the ribs **22** of the inner tube **20** to slide along the sliding slots **12** of the main tube **10**. Thus, the inner tube **20** and the bottle **80** move toward the upper open end of the main tube **10** and the sprayer **82** of the bottle **80** protrudes out of the main tube **10**.

With further reference to FIG. **6**, with the spring **30** pushing the inner tube **20**, when the beveled edge **221** of each rib **22** is moved to one of the beveled edges **111** of the corresponding positioning protrusions **11** of the main tube **10**, the beveled edge **221** of the rib **22** leans against and slides along the beveled edge **111** of the corresponding positioning protrusion **11**. Thus, the inner tube **20** is forced to rotate relative to the main tube **10** until the ribs **22** of the inner tube **20** abut the longitudinal edges **112** of the positioning protrusions **11**. Then the sprayer **82** of the bottle **80** remains protruding out of the press-on cosmetic container. The user can press the sprayer **82** to spray out the cosmetic fluid that is stored in the bottle **80**.

After using the cosmetic fluid, the user presses the end button **60** again to drive the actuator **40**, so that the guiding protrusions **42** of the actuator **40** respectively push the ribs **22** of the inner tube **20**. As the beveled edge **221** of each rib **22** is moved to an upper end of the longitudinal edge **112** of the corresponding positioning protrusion **11** of the main tube **10**, the beveled edge **221** of the rib **22** leans against and slides along the other beveled edge **111** of the corresponding positioning protrusion **11** to force the inner tube **20** to rotate relative to the main tube **10** again. With the spring **30** pushing the inner tube **20**, the ribs **22** slide into the sliding slots **12** of the main tube **10** again and the whole bottle **80** is received in the press-on cosmetic container.

The press-on cosmetic container as described has the following advantages. The user can hold the press-on cosmetic container with one single hand to press the end button **60** and to allow the sprayer **82** of the bottle **80** to protrude out of the press-on cosmetic container or retract inward to be received in the press-on cosmetic container, which is convenient for operating. Moreover, since no cap is needed for the sprayer **82**, no cap would be lost or loosened from the cosmetic container, and the sprayer **82** would not be accidentally pressed and spray out the cosmetic fluid.

Even though numerous characteristics and advantages of the present invention have been set forth in the foregoing description, together with details of the structure and features of the invention, the disclosure is illustrative only. Changes may be made in the details, especially in matters of shape, size, and arrangement of parts within the principles of the

invention to the full extent indicated by the broad general meaning of the terms in which the appended claims are expressed.

What is claimed is:

1. A press-on cosmetic container comprising:

a main tube having

an inner surface;

an upper open end;

multiple positioning protrusions separately formed on and arranged around the inner surface of the main tube, and each positioning protrusion having

an upper end;

two beveled edges formed on the upper end of the positioning protrusion and slanting in the same direction; and

a longitudinal edge having two ends respectively connected to the beveled edges of the positioning protrusion;

multiple sliding slots, and each sliding slot extending longitudinally and defined between two of the positioning protrusions that are adjacent to each other; and

a limiting protrusion formed around the inner surface of the main tube and disposed between the upper open end of the main tube and the positioning protrusions;

an inner tube mounted in the main tube and having

an upper end;

a lower end;

an outer surface;

a flange formed around the outer surface of the inner tube and disposed between the positioning protrusions and the limiting protrusion of the main tube; and

multiple ribs separately formed on and arranged around the outer surface of the inner tube and disposed between the flange and the lower end of the inner tube, and each rib extending longitudinally;

a spring mounted around the inner tube and disposed between the upper end of the inner tube and the flange; and

an actuator being tubular, mounted around the lower end of the inner tube, slidably disposed between the inner tube and the main tube, and having

an outer surface;

an upper peripheral edge; and

multiple guiding protrusions separately formed on and arranged around the outer surface of the actuator, and respectively mounted slidably in the sliding slots of the main tube;

wherein

the ribs are selectively revolved such that each rib is positioned alternately through the sliding slots of the main tube and abutting the longitudinal edges and the beveled edges of the positioning protrusions of the main tube; and

when the ribs of the inner tube are respectively mounted through the sliding slots of the main tube, the spring pushes the inner tube, so that the ribs of the inner tube abut the upper peripheral edge of the actuator.

2. The press-on cosmetic container as claimed in claim **1**, wherein each rib of the inner tube has a lower end and a beveled edge formed on the lower end of the rib and selectively leaning against one of the beveled edges of a corresponding positioning protrusion.

3. The press-on cosmetic container as claimed in claim **2** further comprising:

a resilient sleeve made of resilient and soft material and having

a lower end; and

an upper end securely mounted on the lower open end of the main tube; and

an end button mounted on the lower end of the resilient sleeve and securely connected to the actuator.

4. The press-on cosmetic container as claimed in claim **3** further comprising an outer tube mounted around the main tube and the upper end of the resilient sleeve.

5. The press-on cosmetic container as claimed in claim **1**, wherein

the main tube comprises

a guiding tube having an inner surface, an upper peripheral edge, and a lower end; and

an outer mounting tube having an inner surface and a lower peripheral edge corresponding to and securely connected to the upper peripheral edge of the guiding tube;

the positioning protrusions and the sliding slots of the main tube are formed on the inner surface of the guiding tube; and

the limiting protrusion of the main tube is formed on the inner surface of the outer mounting tube.

6. The press-on cosmetic container as claimed in claim **2**, wherein

the main tube comprises

a guiding tube having an inner surface, an upper peripheral edge, and a lower end; and

an outer mounting tube having an inner surface and a lower peripheral edge corresponding to and securely connected to the upper peripheral edge of the guiding tube;

the positioning protrusions and the sliding slots of the main tube are formed on the inner surface of the guiding tube; and

the limiting protrusion of the main tube is formed on the inner surface of the outer mounting tube.

7. The press-on cosmetic container as claimed in claim **3**, wherein

the main tube comprises

a guiding tube having an inner surface, an upper peripheral edge, and a lower end; and

an outer mounting tube having an inner surface and a lower peripheral edge corresponding to and securely connected to the upper peripheral edge of the guiding tube;

the positioning protrusions and the sliding slots of the main tube are formed on the inner surface of the guiding tube; and

the limiting protrusion of the main tube is formed on the inner surface of the outer mounting tube.

8. The press-on cosmetic container as claimed in claim **4**, wherein

the main tube comprises

a guiding tube having an inner surface, an upper peripheral edge, and a lower end; and

an outer mounting tube having an inner surface and a lower peripheral edge corresponding to and securely connected to the upper peripheral edge of the guiding tube;

the positioning protrusions and the sliding slots of the main tube are formed on the inner surface of the guiding tube; and

the limiting protrusion of the main tube is formed on the inner surface of the outer mounting tube.

9. The press-on cosmetic container as claimed in claim **1**, wherein

the inner tube comprises

a positioning tube having

an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

10. The press-on cosmetic container as claimed in claim **2**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

11. The press-on cosmetic container as claimed in claim **3**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

12. The press-on cosmetic container as claimed in claim **4**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

13. The press-on cosmetic container as claimed in claim **5**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

14. The press-on cosmetic container as claimed in claim **6**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

15. The press-on cosmetic container as claimed in claim **7**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having

an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

16. The press-on cosmetic container as claimed in claim **8**, wherein
the inner tube comprises
a positioning tube having
an outer surface;
an upper end;
a lower end; and
a first lateral protrusion formed on the outer surface of the positioning tube and around the upper end of the positioning tube; and
an inner mounting tube having
an outer surface;
an upper end being open;
a lower end being open; and
a second lateral protrusion formed on the outer surface of the inner mounting tube and around the lower end of the inner mounting tube, and abutting the first lateral protrusion to form the flange of the inner tube; and
the ribs of the inner tube are formed on the outer surface of the positioning tube.

17. The press-on cosmetic container as claimed in claim **13**, wherein the inner tube further has an O-ring mounted around the outer surface of the inner tube and abutting the limiting protrusion of the main tube.

18. The press-on cosmetic container as claimed in claim **14**, wherein the inner tube further has an O-ring mounted around the outer surface of the inner tube and abutting the limiting protrusion of the main tube.

19. The press-on cosmetic container as claimed in claim **15**, wherein the inner tube further has an O-ring mounted around the outer surface of the inner tube and abutting the limiting protrusion of the main tube.

20. The press-on cosmetic container as claimed in claim **16**, wherein the inner tube further has an O-ring mounted around the outer surface of the inner tube and abutting the limiting protrusion of the main tube.

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